PAWCATUCK RIVER COASTAL STORM RISK MANAGEMENT PROJECT

PRECONSTRUCTION, ENGINEERING AND DESIGN PHASE

Mr. Byron Rupp & Ms. Rhonda Bath-Charbonneau Project Managers USACE New England District

Mr. Justin Skenyon Project Manager Rhode Island Coastal Resources Management Council

July 28, 2021













MEETING AGENDA







6:00 pm	Introductions	Town of Westerly
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USACE and RICRMC Formal Presentation 6:10 pm

Questions and Answers All 6:45 pm

BACKGROUND - STUDY AUTHORITY







- The study was authorized by a resolution by the Committee on Public Works of the U.S. Senate
 (September 12, 1969) that gives the USACE the authority to investigate solutions for "flood control,
 navigation, and related purposes in Southeastern New England …"
- On October 29-30, 2012, one of the deadliest hurricanes to hit the United States, Hurricane Sandy, devastated the study area.
- The feasibility study was prepared in compliance with the applicable requirements of the Disaster Relief Appropriations Act of 2013 (Public Law 113-2) enacted in response to Hurricane Sandy.
- Rhode Island Coastal Resources Management Council (RICRMC) was the non-Federal partner for the study. CRMC may partner with the four communities and/or other state agencies during implementation phase

PROJECT PURPOSE AND LOCATION

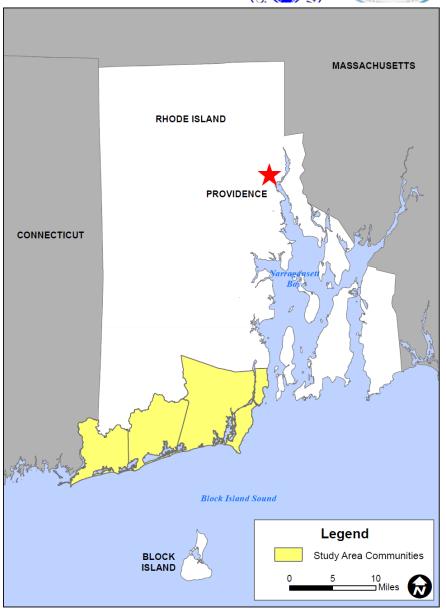






Manage risk of damages from hurricane & storm surge flooding

- Manage residual flood damage from coastal storm events
- Manage risk to local residents' life and safety





PROJECT DETAILS







- Project is a Locally Preferred Plan (LPP) consisting of non-structural actions
- 247 residential structures across four communities potentially eligible to be elevated to the FEMA Base Flood Elevation + 1 foot + 'intermediate' sea level rise rate of 0.8 feet over the next 50 years
- 21 commercial structures in three communities potentially eligible to be floodproofed
- Design Phase of the project began in South Kingstown in 2020 and initial structure surveys are underway.
 Rights of entry currently being signed to allow access for structure inspection/surveys initial design phase is 100% Federally funded.
- Construction Phase of the project will be cost-shared 65% Fed, 35% Non-Fed (Individual Property Owners)



PROJECT DETAILS







- Cost estimates from the feasibility study range from a low of approx. \$131,000 to a high of \$254,000. Estimates heavily dependent on structure type and location within the coastal floodplain
- Updated Gov't estimates for the construction phase will be developed as part of the project & homeowners will be part of the process

	Cost Ea	Quantity
A Zone		
Simple Ranch	\$130,877	74
Simple 2-Story	\$146,728	23
Complicated Ranch w/ Basement	\$149,502	21
Complicated 2-Story w/ Basement	\$160,919	14
Complicated Raised Ranch	\$183,010	13
Complicated 2-Story w/ Slab	\$202,551	19
V Zone		
Simple Ranch	\$176,584	28
Simple 2-Story	\$192,435	9
Complicated Ranch w/ Basement	\$195,209	13
Complicated 2-Story w/ Basement	\$206,627	15
Complicated Raised Ranch	\$234,132	3
Complicated 2-Story w/ Slab	\$253,673	15



PROJECT DETAILS

- Example home in Fairfield, CT \$196,685 (2016 numbers)
- 46 homes elevated in 2016, Average cost was \$204,000 per structure.











PROJECT DETAILS - LOAN PROGRAM







The State of Rhode Island is in the process of creating a "Program Administrator" which will be a collaboration of state agencies that will administer the financial aspects required for this project.

The Program Administrator's main objectives will be;

- Organize a pool of financial institutions that agree to fund loans to the homeowners in this project
- Conduct pre-approval for the loans
- Facilitate paying the Non-Federal match (35% of project cost)



PROJECT DETAILS - CRMC PERMITTING







- Maintenance Applications are used for projects whose activities do not alter the approved design, purpose and size of the structure
- Homeowners that only use the House Raising/Floodproofing plans will likely only need to file a Maintenance Application
- Any change to the existing dwelling's size/design will require an Assent application. Examples could be small additions, new decks or covered porches, etc.



PROJECT TIMELINE







Project Authorized under Title X, Chapter 4, Division A of the Disaster Relief Appropriations Act of 2013

October 2019:

USACE & CRMC signed Design Agreement to conduct design phase at full federal expense.

Final Feasibility Report February 2018

Federal Funding received December 2019

Public Meetings
July 2020 –
July 2021

Elevate Structures (estimated 2023-?)

Funding Received:

Federal design funding (USACE) received for Preconstruction, Engineering & Design Phase to begin nonstructural implementation

Additional Activities:

- Complete program eligible structure surveys and designs.
- Execute Construction Agreement with the State of Rhode Island Non-Federal Sponsor.
- Receive federal and non-federal construction funding.
- Execute construction contracts.









STEP 1: Structure owner(s) fill out Registration Form

Pawcatuck River Coastal Storm Risk Management Project CRMC Structure Owner Registration **US Army Corps** Form of Engineers. Please fill of the structure owner registration form if you are interested in participating in the Favycatuck. fren Constal Stein Red Managament Project Completer of regardance in michael i grand tek participation in the Project. Please rewin the completed form to. Shenea L But i gusaccami y mil (Prefer ad) e Shance Bath Charbonneau Project Manager 696 to rainia Rou Crossions, phonocronised, 15 or dis Berli-Charbonoreure, therete Histri @cseculerry and Personal Information: Property Demar Name(s) (please add all adolfichal owners on separate sheel (fineedec) a openy Addiess. Making Acabess of different than property schemost. Jana N. Infrensi Selected problem in the last Strong Third puris interest (renter, etc.) Structure information: Year die of Johns was build □Uisn : Constituction type:s(f) L Misura Annew off sees 2 Direct. Formation type? [1865] D'in. □-ID-II Square Foolage of Living Space: □th sins Lineary Secure Francisco Anger (Ann. Spalar Invene) _org "... awayan Cardas Owner was safety on late.

STEP 2: Structure owner(s) sign Right-of-Entry (example)

DEPARTMENT OF THE ARMY

PROHILOF ENTRY FOR SURVEY AND ASSESSMENTS

Reviewers River Coastal Storm Risk Veragarari Freed Proposit Authorities or receipt

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STEP 3: USACE & CRMC will confirm registration requirements are met by:

- Verifying ownership
- Verifying property has not previously received grant/assistance for elevation of structure







STEP 4: USACE & CRMC will verify eligibility by performing surveys:

- First floor and roof elevations
- Structural condition assessment
- Cultural resources







STEP 5: Develop designs and government estimates with Homeowner review/approval.

STEP 6: Secure Federal and Non-Federal construction funding.

SCHEDULE FOR ELIGIBLE STRUCTURES







Perform required pre-construction design activities
Fall 2020 - Winter 2021 (estimated)

Receive construction funding

Execute contracts for final design & construction

Elevate/floodproof structures

USACE and CRMC verify structure and owner eligibility.

USACE and CRMC complete eligible structure designs.



CONTACT INFORMATION







USACE



Rhonda Bath-Charbonneau Rhonda.L.Bath@usace.army.mil

CRMC



Justin Skenyon jskenyon@crmc.ri.gov

PROJECT WEBPAGE

https://www.nae.usace.army.mil/Missions/Projects-Topics/Pawcatuck-River-CSRM-Feasibility-Study/

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QUESTION & ANSWER SESSION